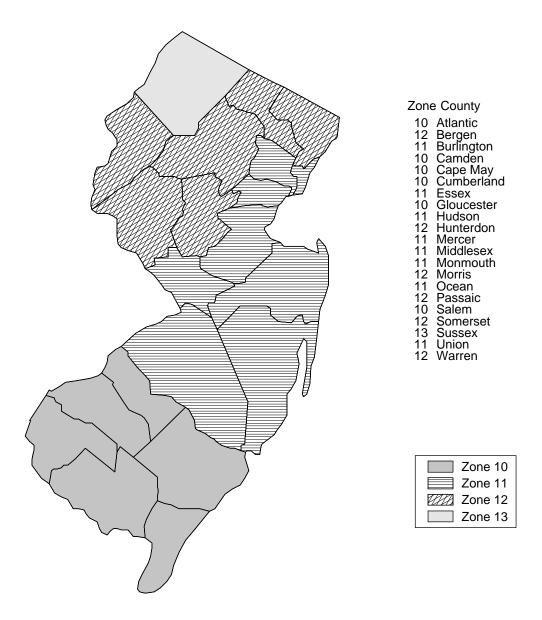
NEW JERSEY





	MAXI	MUM			MIN	IIMUM			
Package	Glazing Area Percent ¹	Glazing U-Value ²	Ceiling R-Value ³	Wall R-Value⁴	Floor R-Value⁵	Basement Wall R-Value ⁶	Slab Perimeter R-Value ⁷	Crawl Space Wall R-Value ⁸	Heating/Cooling Equipment Efficiency ⁹
1	12%	0.65	R-38	R-19	R-19	R-8	R-3	R-13	Normal
2	12%	0.50	R-30	R-13	R-19	R-9	R-6	R-16	Normal
3	15%	0.55	R-38	R-19	R-19	R-9	R-5	R-16	Normal
4	15%	0.40	R-30	R-13	R-19	R-9	R-4	R-15	Normal
5	18%	0.45	R-38	R-19	R-19	R-8	R-3	R-14	Normal
6	18%	0.35	R-30	R-13	R-19	R-9	R-5	R-15	Normal
7	22%	0.40	R-38	R-19	R-21	R-10	R-8	R-18	Normal
8	12%	0.75	R-38	R-13	R-13	R-6	R-2	R-10	High Heating
9	12%	0.70	R-30	R-13	R-13	R-6	R-0	R-9	High Heating
10	15%	0.75	R-38	R-15	R-19	R-9	R-2	R-22	High Heating
11	15%	0.60	R-30	R-13	R-13	R-7	R-2	R-11	High Heating
12	18%	0.70	R-38	R-19	R-19	R-9	R-2	R-22	High Heating
13	18%	0.50	R-30	R-13	R-13	R-6	R-2	R-10	High Heating
14	22%	0.55	R-38	R-19	R-19	R-7	R-2	R-14	High Heating
15	22%	0.45	R-30	R-13	R-15	R-7	R-2	R-13	High Heating
16	12%	0.65	R-19	R-13	R-13	R-6	R-2	R-11	High Heat/Cool
17	15%	0.60	R-30	R-13	R-13	R-6	R-0	R-10	High Heat/Cool
18	18%	0.60	R-30	R-13	R-19	R-9	R-2	R-22	High Heat/Cool
19	22%	0.50	R-30	R-13	R-19	R-8	R-2	R-20	High Heat/Cool
20	22%	0.50	R-38	R-19	R-11	R-6	R-0	R-8	High Heat/Cool



	MAXI	MUM			MIN	IIMUM			
Package	Glazing Area Percent ¹	Glazing U-Value ²	Ceiling R-Value ³	Wall R-Value⁴	Floor R-Value⁵	Basement Wall R-Value ⁶	Slab Perimeter R-Value ⁷	Crawl Space Wall R-Value ⁸	Heating/Cooling Equipment Efficiency ⁹
1	12%	0.60	R-38	R-19	R-19	R-9	R-7	R-17	Normal
2	12%	0.40	R-30	R-13	R-19	R-9	R-4	R-15	Normal
3	15%	0.45	R-38	R-19	R-19	R-8	R-2	R-12	Normal
4	15%	0.35	R-30	R-13	R-19	R-9	R-7	R-17	Normal
5	18%	0.40	R-38	R-19	R-19	R-9	R-4	R-14	Normal
6	22%	0.40	R-38	R-19	R-30	R-13			Normal
7	22%	0.35	R-38	R-19	R-19	R-10	R-7	R-17	Normal
8	12%	0.60	R-30	R-13	R-13	R-6	R-0	R-9	High Heating
9	15%	0.75	R-38	R-19	R-19	R-9	R-2	R-20	High Heating
10	18%	0.60	R-38	R-19	R-19	R-7	R-2	R-14	High Heating
11	18%	0.50	R-30	R-13	R-19	R-8	R-2	R-16	High Heating
12	22%	0.50	R-38	R-19	R-19	R-7	R-2	R-14	High Heating
13	22%	0.45	R-30	R-15	R-19	R-8	R-2	R-18	High Heating
14	12%	0.65	R-30	R-13	R-13	R-6	R-0	R-10	High Heat/Cool
15	15%	0.65	R-38	R-13	R-19	R-8	R-2	R-18	High Heat/Cool
16	15%	0.50	R-30	R-13	R-11	R-6	R-0	R-8	High Heat/Cool
17	18%	0.65	R-38	R-19	R-19	R-9	R-2	R-20	High Heat/Cool
18	18%	0.45	R-30	R-13	R-13	R-6	R-0	R-10	High Heat/Cool
19	22%	0.50	R-38	R-19	R-15	R-7	R-2	R-13	High Heat/Cool
20	22%	0.40	R-30	R-15	R-13	R-6	R-0	R-10	High Heat/Cool

⁻⁻ Hyphens (--) indicate that the package which contains the hyphens cannot be used with the indicated foundation type (slab or crawl space).



	MAXI	MUM			MIN	IIMUM			
Package	Glazing Area Percent ¹	Glazing U-Value ²	Ceiling R-Value ³	Wall R-Value ⁴	Floor R-Value⁵	Basement Wall R-Value ⁶	Slab Perimeter R-Value ⁷	Crawl Space Wall R-Value ⁸	Heating/Cooling Equipment Efficiency ⁹
1	12%	0.50	R-38	R-19	R-19	R-9	R-5	R-15	Normal
2	12%	0.35	R-30	R-15	R-19	R-9	R-4	R-14	Normal
3	15%	0.40	R-38	R-19	R-19	R-9	R-4	R-14	Normal
4	18%	0.40	R-38	R-19	R-26	R-12		R-28	Normal
5	18%	0.35	R-38	R-19	R-19	R-9	R-5	R-15	Normal
6	22%	0.35	R-38	R-19	R-30	R-13			Normal
7	12%	0.70	R-38	R-19	R-13	R-6	R-0	R-9	High Heating
8	12%	0.55	R-30	R-13	R-13	R-7	R-2	R-11	High Heating
9	15%	0.70	R-38	R-19	R-21	R-9	R-3	R-26	High Heating
10	15%	0.45	R-30	R-13	R-13	R-7	R-2	R-10	High Heating
11	18%	0.50	R-38	R-15	R-19	R-8	R-2	R-18	High Heating
12	18%	0.45	R-30	R-13	R-19	R-8	R-2	R-18	High Heating
13	22%	0.50	R-49	R-19	R-21	R-9	R-3	R-22	High Heating
14	22%	0.40	R-30	R-15	R-19	R-8	R-2	R-18	High Heating
15	12%	0.75	R-38	R-15	R-19	R-8	R-2	R-19	High Heat/Cool
16	12%	0.55	R-30	R-13	R-13	R-6	R-0	R-10	High Heat/Cool
17	15%	0.70	R-38	R-19	R-19	R-9	R-2	R-22	High Heat/Cool
18	15%	0.45	R-30	R-13	R-13	R-6	R-0	R-10	High Heat/Cool
19	18%	0.60	R-38	R-19	R-21	R-9	R-3	R-24	High Heat/Cool
20	18%	0.50	R-30	R-13	R-21	R-10	R-4	R-28	High Heat/Cool
21	22%	0.50	R-38	R-19	R-21	R-9	R-3	R-24	High Heat/Cool

⁻⁻ Hyphens (--) indicate that the package which contains the hyphens cannot be used with the indicated foundation type (slab or crawl space).



	MAXI	MUM			MIN	IIMUM			
Package	Glazing Area Percent ¹	Glazing U-Value ²	Ceiling R-Value ³	Wall R-Value ⁴	Floor R-Value⁵	Basement Wall R-Value ⁶	Slab Perimeter R-Value ⁷	Crawl Space Wall R-Value ⁸	Heating/Cooling Equipment Efficiency ⁹
1	12%	0.45	R-38	R-19	R-19	R-10	R-7	R-16	Normal
2	15%	0.40	R-38	R-19	R-26	R-11	R-12	R-22	Normal
3	15%	0.35	R-38	R-19	R-19	R-9	R-5	R-14	Normal
4	18%	0.35	R-38	R-19	R-26	R-11	R-15	R-26	Normal
5	18%	0.35	R-49	R-19	R-21	R-10	R-9	R-19	Normal
6	22%	0.35	R-49	R-21	R-30	R-14			Normal
7	12%	0.65	R-38	R-15	R-19	R-9	R-3	R-18	High Heating
8	12%	0.55	R-30	R-13	R-19	R-8	R-2	R-16	High Heating
9	15%	0.60	R-38	R-19	R-19	R-8	R-2	R-17	High Heating
10	15%	0.45	R-30	R-13	R-19	R-8	R-2	R-16	High Heating
11	18%	0.50	R-38	R-19	R-19	R-8	R-2	R-16	High Heating
12	18%	0.40	R-30	R-13	R-19	R-8	R-3	R-18	High Heating
13	22%	0.40	R-38	R-15	R-21	R-10	R-4	R-24	High Heating
14	12%	0.75	R-38	R-19	R-19	R-8	R-2	R-16	High Heat/Cool
15	12%	0.60	R-30	R-13	R-19	R-9	R-3	R-20	High Heat/Cool
16	15%	0.65	R-38	R-19	R-21	R-9	R-4	R-24	High Heat/Cool
17	15%	0.50	R-30	R-13	R-19	R-9	R-4	R-22	High Heat/Cool
18	18%	0.55	R-38	R-19	R-21	R-9	R-4	R-24	High Heat/Cool
19	18%	0.40	R-30	R-13	R-19	R-8	R-2	R-16	High Heat/Cool
20	22%	0.45	R-49	R-19	R-19	R-8	R-2	R-17	High Heat/Cool
21	22%	0.40	R-38	R-15	R-19	R-9	R-3	R-22	High Heat/Cool

⁻⁻ Hyphens (--) indicate that the package which contains the hyphens cannot be used with the indicated foundation type (slab or crawl space).



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		VIUIVI		MINIMUM						
Package	Glazing Area Percent ¹	Glazing U-Value ²	Ceiling R-Value ³	Wall R-Value ⁴	Floor R-Value⁵	Basement Wall R-Value ⁶	Slab Perimeter R-Value ⁷	Crawl Space Wall R-Value ⁸	Heating/Cooling Equipment Efficiency ⁹	
1	15%	0.70	R-30	R-13	R-11	R-5	R-0	R-6	Normal	
2	15%	0.50	R-13	R-13	R-11	R-5	R-0	R-5	Normal	
3	20%	0.65	R-38	R-19	R-11	R-5	R-0	R-6	Normal	
4	20%	0.55	R-30	R-13	R-11	R-5	R-0	R-6	Normal	
5	25%	0.45	R-26	R-13	R-13	R-6	R-0	R-7	Normal	
6	30%	0.45	R-38	R-14	R-15	R-7	R-2	R-11	Normal	
7	30%	0.40	R-30	R-13	R-13	R-6	R-0	R-7	Normal	
8	15%	0.75	R-13	R-11	R-11	R-4	R-0	R-4	High Heating	
9	20%	0.75	R-19	R-13	R-11	R-5	R-0	R-7	High Heating	
10	20%	0.70	R-13	R-13	R-13	R-6	R-0	R-8	High Heating	
11	25%	0.75	R-30	R-13	R-19	R-10	R-4	R-26	High Heating	
12	25%	0.60	R-19	R-11	R-11	R-5	R-0	R-7	High Heating	
13	30%	0.65	R-38	R-13	R-19	R-10	R-4	R-28	High Heating	
14	30%	0.55	R-30	R-11	R-11	R-5	R-0	R-7	High Heating	
15	15%	0.90	R-13	R-11	R-13	R-6	R-0	R-9	High Heat/Cool	
16	20%	0.75	R-19	R-11	R-11	R-5	R-0	R-7	High Heat/Cool	
17	20%	0.70	R-13	R-11	R-13	R-6	R-0	R-9	High Heat/Cool	
18	25%	0.70	R-30	R-13	R-13	R-6	R-0	R-8	High Heat/Cool	
19	25%	0.65	R-19	R-13	R-13	R-6	R-0	R-8	High Heat/Cool	
20	30%	0.60	R-38	R-13	R-11	R-5	R-0	R-8	High Heat/Cool	
21	30%	0.55	R-19	R-13	R-13	R-6	R-0	R-8	High Heat/Cool	



	MAXI	MUM			MIN	IIMUM			
Package	Glazing Area Percent ¹	Glazing U-Value ²	Ceiling R-Value ³	Wall R-Value⁴	Floor R-Value⁵	Basement Wall R-Value ⁶	Slab Perimeter R-Value ⁷	Crawl Space Wall R-Value ⁸	Heating/Cooling Equipment Efficiency ⁹
1	15%	0.70	R-30	R-13	R-11	R-5	R-0	R-6	Normal
2	15%	0.50	R-13	R-13	R-11	R-5	R-0	R-6	Normal
3	20%	0.60	R-30	R-13	R-15	R-7	R-2	R-10	Normal
4	20%	0.50	R-26	R-11	R-11	R-6	R-0	R-6	Normal
5	25%	0.50	R-38	R-16	R-11	R-5	R-0	R-6	Normal
6	25%	0.45	R-30	R-13	R-13	R-6	R-0	R-6	Normal
7	30%	0.45	R-38	R-15	R-15	R-8	R-2	R-11	Normal
8	30%	0.45	R-38	R-18	R-13	R-6	R-2	R-7	Normal
9	15%	0.90	R-13	R-13	R-13	R-6	R-0	R-8	High Heating
10	15%	0.75	R-13	R-11	R-11	R-4	R-0	R-4	High Heating
11	20%	0.75	R-19	R-11	R-13	R-6	R-0	R-9	High Heating
12	20%	0.65	R-13	R-11	R-11	R-5	R-0	R-7	High Heating
13	25%	0.70	R-38	R-13	R-13	R-6	R-0	R-9	High Heating
14	25%	0.60	R-19	R-11	R-11	R-5	R-0	R-7	High Heating
15	30%	0.65	R-38	R-13	R-19	R-10	R-5	R-30	High Heating
16	30%	0.55	R-30	R-11	R-11	R-5	R-0	R-7	High Heating
17	15%	Any	R-26	R-13	R-11	R-5	R-0	R-7	High Heat/Cool
18	15%	0.90	R-13	R-11	R-13	R-6	R-0	R-9	High Heat/Cool
19	20%	0.75	R-19	R-11	R-11	R-5	R-0	R-7	High Heat/Cool
20	20%	0.65	R-13	R-11	R-11	R-5	R-0	R-6	High Heat/Cool
21	25%	0.70	R-30	R-13	R-13	R-6	R-0	R-9	High Heat/Cool
22	25%	0.55	R-13	R-11	R-11	R-5	R-0	R-7	High Heat/Cool
23	30%	0.60	R-30	R-13	R-13	R-6	R-0	R-9	High Heat/Cool
24	30%	0.55	R-19	R-13	R-13	R-6	R-0	R-8	High Heat/Cool



	MAXI	MUM			MIN	IIMUM			
Package	Glazing Area Percent ¹	Glazing U-Value ²	Ceiling R-Value ³	Wall R-Value ⁴	Floor R-Value⁵	Basement Wall R-Value ⁶	Slab Perimeter R-Value ⁷	Crawl Space Wall R-Value ⁸	Heating/Cooling Equipment Efficiency ⁹
1	15%	0.70	R-30	R-13	R-11	R-6	R-0	R-6	Normal
2	15%	0.55	R-19	R-11	R-11	R-5	R-0	R-5	Normal
3	20%	0.60	R-26	R-13	R-19	R-9	R-3	R-13	Normal
4	20%	0.55	R-38	R-13	R-11	R-5	R-0	R-6	Normal
5	20%	0.50	R-26	R-11	R-13	R-6	R-0	R-6	Normal
6	25%	0.50	R-26	R-13	R-19	R-9	R-5	R-15	Normal
7	25%	0.45	R-30	R-14	R-11	R-5	R-0	R-6	Normal
8	30%	0.45	R-38	R-13	R-19	R-9	R-4	R-14	Normal
9	15%	0.90	R-19	R-11	R-11	R-5	R-0	R-5	High Heating
10	20%	0.75	R-19	R-11	R-13	R-6	R-0	R-9	High Heating
11	20%	0.65	R-13	R-11	R-11	R-5	R-0	R-7	High Heating
12	25%	0.70	R-30	R-13	R-13	R-7	R-2	R-11	High Heating
13	25%	0.60	R-19	R-11	R-11	R-5	R-0	R-7	High Heating
14	30%	0.60	R-26	R-13	R-15	R-8	R-2	R-14	High Heating
15	15%	0.90	R-13	R-13	R-11	R-5	R-0	R-7	High Heat/Cool
16	20%	0.75	R-19	R-11	R-11	R-5	R-0	R-7	High Heat/Cool
17	25%	0.70	R-38	R-11	R-13	R-6	R-0	R-9	High Heat/Cool
18	25%	0.60	R-19	R-11	R-11	R-5	R-0	R-6	High Heat/Cool
19	30%	0.60	R-30	R-13	R-13	R-6	R-0	R-9	High Heat/Cool



	MAXII	MUM			MIN	NIMUM			
Package	Glazing Area Percent ¹	Glazing U-Value ²	Ceiling R-Value ³	Wall R-Value⁴	Floor R-Value⁵	Basement Wall R-Value ⁶	Slab Perimeter R-Value ⁷	Crawl Space Wall R-Value ⁸	Heating/Cooling Equipment Efficiency ⁹
1	15%	0.60	R-30	R-14	R-11	R-5	R-0	R-6	Normal
2	15%	0.50	R-19	R-13	R-11	R-5	R-0	R-6	Normal
3	20%	0.55	R-38	R-14	R-15	R-8	R-2	R-10	Normal
4	20%	0.45	R-30	R-13	R-11	R-5	R-0	R-6	Normal
5	25%	0.50	R-38	R-19	R-15	R-8	R-2	R-10	Normal
6	25%	0.40	R-30	R-13	R-13	R-6	R-2	R-7	Normal
7	30%	0.40	R-38	R-13	R-19	R-9	R-5	R-15	Normal
8	15%	0.75	R-13	R-13	R-11	R-5	R-0	R-6	High Heating
9	20%	0.70	R-26	R-13	R-11	R-5	R-0	R-6	High Heating
10	20%	0.55	R-13	R-11	R-11	R-5	R-0	R-6	High Heating
11	25%	0.60	R-30	R-13	R-11	R-5	R-0	R-7	High Heating
12	25%	0.55	R-19	R-13	R-11	R-5	R-0	R-7	High Heating
13	30%	0.55	R-38	R-13	R-13	R-7	R-2	R-11	High Heating
14	30%	0.50	R-26	R-13	R-11	R-5	R-0	R-7	High Heating

FOOTNOTES:

- Glazing area is the ratio of the area of the glazing assemblies (including sliding-glass doors, skylights, and basement windows but excluding opaque doors) to the gross wall area, expressed as a percentage. Up to 1% of the total glazing area may be excluded from the U-value requirement. For example, 3 ft ² of decorative glass may be excluded from a building design with 300 ft ² of glazing area.
- Glazing U-values should be tested and documented by the manufacturer in accordance with the National Fenestration Rating Council (NFRC) test procedure, taken from the glazing U-value table in Appendix B, or derived from an alternate test procedure or table accepted by your local jurisdiction. Center-of-glass U-values cannot be used.
- The ceiling R-values do not assume a raised or oversized truss construction. If the insulation achieves the full insulation thickness over the exterior walls, R-30 insulation may be substituted for R-38 insulation and R-38 insulation may be substituted for R-49 insulation. Ceiling R-values represent the sum of cavity insulation plus insulating sheathing (if used). For ventilated ceilings, insulating sheathing must be placed between the conditioned space and the ventilated portion of the roof.
- Wall R-values represent the sum of the wall cavity insulation plus insulating sheathing (if used). Do not include exterior siding, structural sheathing, and interior drywall. For example, an R-19 requirement could be met EITHER by R-19 cavity insulation OR R-13 cavity insulation plus R-6 insulating sheathing. Wall requirements apply to wood-frame or mass (concrete, masonry, log) wall constructions, but do not apply to metal-frame construction. Metal-frame wall equivalent R-values can be found in Appendix C.
- The floor requirements apply to floors over unconditioned spaces (such as unconditioned crawlspaces, basements, or garages). Floors over outside air must meet the ceiling requirements.
- Walls of conditioned basements below uninsulated floors must be insulated from the top of the basement wall to a depth of 10 ft below ground level or to the level of the basement floor, whichever is less. The entire opaque portion of basement walls with an average depth less than 50% below grade must meet the same R-value requirement as abovegrade walls. Conditioned basement windows and sliding glass doors must be included with the other glazing. Basement doors must meet the door U-value requirement described in Note b.
- The R-value requirements are for unheated slabs. Add an additional R-2 for heated slabs, except in Zone 1 which does not require slab insulation. For packages with a slab insulation requirement, the insulation must extend a total linear distance of at least 24 in. in Zones 2-12 and 48 in. in Zones 13-17. The insulation must extend 1) down from the top of the slab, or 2) down from the top of the slab to the bottom of the slab and then horizontally underneath the slab, or 3) down from the top of the slab to the bottom of the slab and then horizontally away from the slab, with pavement or at least 10 in. of soil covering the horizontal insulation.
- The crawl space wall R-value requirements are for walls of unventilated crawl spaces. The crawl space wall insulation must extend from the top of the wall (including the sill plate) to at least 12 in. below the outside finished grade. If the distance from the outside finished grade to the top of the footing is less than 12 in., the insulation must extend a total vertical plus horizontal distance of 24 in. from the outside finished grade.
- High Heating means a furnace AFUE of 90% or more, or a heat pump HSPF of 7.8 or more. High Cooling means a SEER of 12 or more. High Heat/Cool means both heating and cooling equipment must meet these minimum efficiencies. If you plan to install more than one piece of heating equipment or more than one piece of cooling equipment, the equipment with the lowest efficiency must meet or exceed the efficiency required by the selected package. The following California counties do not qualify for the cooling equipment credit: Alameda, Contra Costa, Los Angeles, Marin, Monterey, Napa, Orange, San Benito, San Diego, San Francisco, San Luis Obispo, San Mateo, Santa Barbara, Santa Clara, Santa Cruz, Solano, Sonoma, and Ventura.

NOTES:

- a) Glazing areas and U-values are maximum acceptable levels. Insulation R-values are minimum acceptable levels. R-value requirements are for insulation only and do not include structural components.
- b) Opaque doors in the building envelope must have a U-value no greater than 0.35. Door U-values must be based on manufacturer data, taken from the door U-value table in Appendix B, or derived from an alternate test procedure or table accepted by your jurisdiction. If a door contains glass and an aggregate U-value rating for that door is not available, include the glass area of the door with your windows and use the opaque door U-value to determine compliance of the door. One door may be excluded from this requirement (i.e., may have a U-value greater than 0.35).
- c) If a ceiling, wall, floor, basement wall, slab-edge, or crawl space wall component includes two or more areas with different insulation levels, the component complies if the area-weighted average R-value is greater than or equal to the R-value requirement for that component. Glazing or door components comply if the area-weighted average U-value of all windows or doors is less than or equal to the U-value requirement (0.35 for doors). Use the R-Value/U-Value Weighted Average Worksheet for these computations.